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CENTRAL INTELLIGENCE AC	GENCY REPORT
INFORMATION RE	PORT CD NO.
COUNTRY East Germany	os no.
SUBJECT Institut fuer Ionen-, Elektronemphysik	DATE DISTR. 12 July 195
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	Manfred von Ardenne's research
institute at 29/31 Plattleite, Dresden-	
institute at 29/31 Plattleite, Dresden- 2. While in Sinon, Ardenne worked on to erect a research institute of his own fichter from Chemnitz, an acquaintance made all the necessary arrangements for institute on the spot according to dire Ardenne Von Ardenne gave the of the buildings required. Some German also contributed to the fund required f the money required is said to have been government. The group of co-workers of formed at Sinop in 1954. These men were under von Ardenne in Dresden after their includes the members of the von Ardenne	the realization of his plan on in Dresden. Ing. Fritz of von Ardenne's brother, the establishment of the extives received from von money for the purchase returnees from the USSR for the institute. A third of made available by the GDR Manfred von Ardenne was ready to continue to work r repatriation. This group
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*	institute at 29/31 1	Plattleite, Dresden-Weisser		nne's resear	, , , , , , , , , , , , , , , , , , ,	ν ⁴ ,
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		ary arrangements for the es ot according to directives			•	
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	the money required :	is said to have been made a	vailable	by the GDR		
•		up of co-workers of Manfred 1954. These men were ready				
	under von Ardenne in	n Dresden after their repat	riation.	This group)·;
•		s of the won Ardenne organi e willing to remain in the			•	* ***
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	neaded by w	and Electron Microson Ardenne at Dresder tension 3672.	copy Institute -Weisser Hirsc	h,	
This privat research an of the inst paid by the furnished b Regarding s MFS agency	e research inside nuclear technitute consiste business manay the Office fecurity, the ion Bautzener Let. At night,	red von Ardenne stitute is subordinat mology at Berlin-Nie d of about 45 person ger Frits Richter. T or Nuclear Research. nstitute and its per andstrasse, Dresden. the institute is gua	derschoeneweid s. Warer and s he money is sa sonnel is conti	o. The staff alaries were id to be rolled by the	
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Installations of the Inst	itute included:				
Isotope Laboratory and Me	esuring Plant	Building No	29, groundfloor		
High Frequency Laboratory Designs Bureau		H H	31, first floor		
Chemical Laboratory Optical Laboratory	•	¥ . #	29, basement 29,		
Photographic Laboratory Glass Blowing Laboratory		W W	29, "		
Main Workshop			31, 2d floor 27		
The magnetic isotope sepa	rating department	was located on	the ground		
floor of building No 14 D of VEB Vakutronik.	ornblutstrasse whi	ch was occupie	d by the firm		
Isotope Laboratory					
Chief	Dr. Hans V	estmeier			25X1
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Dipl. Ing. Bruno Wienecke	19				
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••					
Laboratory assistant Helg	- Vene				
	a noust				•
Laboratory assistant Gise	la Roeper				
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9.	High Frequency Laboratory	.		
	Chief : Dipl. Ing. Heins	Rackvits.	· .	 25X1
				1
	Laboratory assistant Rena	te Brose]
	Laboratory assistant Gall			
		•		
,	Electrician Storeh,			
	Mechanic, name unknown.			
0.	Designs Bureau. Chief: Obering. Gerhard Ja	logar.		
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	Designer Hans Schlesing,			
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15.	. M	personnel data of the mly female laboratory as	optical and chemic	cal laboratories were	• available.		
	R	search Work at the Inst	itute.		•		•
16.	() VI O)	the spring of 1955, the experation between the interference of the properties of the	nstitute of von Ap's institute was toults of this work one did not materis and Hartmann. The entative Rembusch	denne and VEB-Vakuti to undertake scientist were to be utilized dise because of anisoffice for unclear s	ronik Tie by mosity research,		
. 27.	Af	ter the summer of 1955, stitute:					
	8.	New method of silver- means of the vanorisa for measuring tubes.	tion method. These	gless bulks among me	guired g	•	
	b.	Development of a vacu	um leak spotter, D	ipl. Ing. Wienecke.		. 1	
		New method for the man Wienecke. No details	mifacture of meseus		B•		
· V	d.	isotope separator. Voi	development and com a Ardenne, Dr. West ator was built at t	imeier Schlasing T	etic Leger,		25 X 1
	•.	Development of a duopl The device was built a Grossenhainerstrasse,	JY WILE LILYN OF VICK	or the production of Otto Buchwitz Werk,	protons. at 130	* .	
` ,	r.	Development and design Westmeier and Jaeger.	ding of a microscil	llograph. Von Ardenne	Dr.		
	g.	Work on the improver en	t of desimeters. I	dr. Westmeier.	,		
18.			projec	its:			25 X 1
	۵.	100-kV plant installed	at building No 29				
	b.	Vacuum vaporisation pl					,
	c.	Repair of three sets o		Pariate 140 54.	,		
-	d.		-				
		32-kV plant, installed	as building No 29	•			
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		•	
•.	A vacuum plant delivered by a firm in Sangershausen but working order.	into	
ſ.	Manufacture of quara filaments for dosimeters		25 X 1
	these filaments were reasured under the mic	roscope.	25 X 1
g.	Electric installation work for building No 31 and the te offices at VEB-Vakutronik.	chnical	
h.			25X1
41.0	separator set up on the premises of VEB-Vakutronik.	etic isotope	
Not	e: The blowing of quars filaments for dosimeters was des	anthad as	
	follows: Over the flame of a welding torch a black cloth was s		
noc. Tue	this cloth. Quars rods, 1 mm in diameter, were treate open flame in such a way that the pressure of the flat hurled capillary tubes against the black cloth. With these tubes were picked up from the cloth and were the under the microscop. The values obtained were between was planned to develop and build a mass spectograph for the titute in process of construction for Prof. Barwich at Row Presden. Work on the construction drawings required for a started in the fall of 1956. Von Ardenne was very enthurs project. No details available.	me and its heat a foreceps en measured 1 and 10 µ. he Reactor ssendorf this project	
The	production of radio-active isotopes for medical purposes isaged.	was also	
Tai.	project for the construction of an ione pump was believed lure, because it appeared impossible that high vacuums mig ough ionization.	d to be a ght be achieved	
Pri	or to 28 August 1956, no profit was made from the work do	ne at the	
ins	titute.	<u> </u>	25X1
The Jac	leading man at won Ardenne's institute were Dr. Westmeier	r, Obering,	
was (Emi	cerning the magnetic isotope separating plant for light is learned that won Ardenne discussed this project in Moscov ilyanow?). the Soviets were greatly is s project, particularly as he told them that this project	w in April 1955. Interested in	25 X 1
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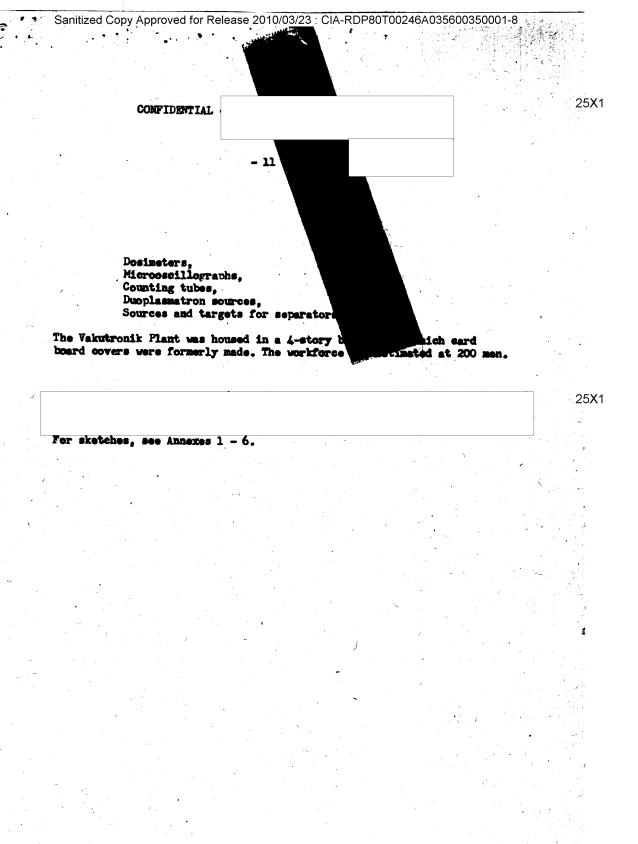
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	without much expenditure.	because much of the scient	icto imple		
	required for the separating	og plant had already been d	lone at the 21non	*	
	institute. Argenne also su	icceeded in taking along fr	om Zinen welneble	records	
	AUTCU COMPG DS MAITINGS 1.0	or the isotope separating r	lent scheduled to	be	
	project.	ehlich's work was very use	ful for this		_
	A O G G C G .	The state of the s	•		
24.					25X1
			The work for this		
	project was undertaken in	three adjoining workshops	of VEF Vakutronik,		
	riesged.	•			
	The main responsibility for separating plant rested wi	r the experimental constru	ction of the isoto	pe	
	drawings and all requisiti	One for materials, actimat	ed all construction	3	
	PL. VERDGROU AITT SCCOOL f	he completed isotope sener	ating plant. Poof		
	nartmann was responsible f	or the financial side of t	he modest and his	business	
	manager, Hicke, was put in	charge of finances as his	deputy.		
25.	The staff of scientists wo	while on the members took			
		raine on one metucate 1900	obe seigns or 1007	Maa:	
	a. Group of Physicists:	r t			
				5-	
	von Ardenne, Dr. West meier,				
	Ing. Frits Kochler	detached from the	Tre ferent		25X1
	Ing. Petter		TI OT OMOLY	•	
	Laboratory assistant				
,	h Group of Washeday			eri i	
	b. Group of Electricians:				100
	Foreman Hermann Will.	a returnee from Agudseri)	from VEB		
	Two or three electricis	ans.	Vakutronik		
				-	
	All designs were furnished	by the designs bureau of	the Institute.		
26.	The total costs for the may	metic iestone semenator			
	PLES LLIOL TO 33 VASINGE 18	50. a sum of 1.2 million D	E une enent	MITTION	
	At VEB Vakutronik two magne	stic isotope speratore ver	a haine built One		
	or them was to remain at V	SB Vakutronik, and the other	of one was to be		
	offered to one of the East 1 in magnetic separators inc	Bloc countries. Establishme	ents which were int	erested	
	magnette separators inc.	ruded:			
	The Institute at Buch	•			
	The Dresden Institute of To	ehnology	•		
	Seven sparators were schedu	aled to be sold to East Blo	oc écuntries.		i
	The separator undersonstructor the separating of hear	ction at the institute can	easily be modified		
	for the separating of heavy a working temperature of 90	o isotopes. The present iso	rope is designed f	or L	
	novever at a temperature of	2,200° to 2,400° C. The	negative sungition Transport MITT MOL	К ,	
	will be the same.	, iii iii iii iii ii ii ii ii ii ii ii i			
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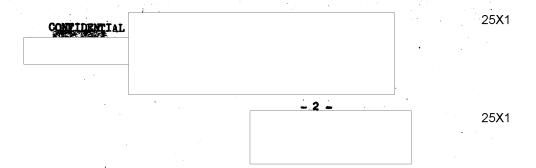
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27.	or ansarkersa for minible 5	its, at 160 Grossenhainerstras nd electronic equipment (busin he died in the meantime), sub	AND MANAGEMENT CALLES	
	2 magnets of 25 ton	s each, with complete chambers		
	4 magnetic coils.	the second secon		
	2 generators for the	e feeding of the magnets		
	Auchiwappeln (?) (or	poling devices) for oil diffue	ion pumps	
	T CONDITION OF A CONDITION	stron source switching equipment		
	Insulating frames.	any sentus adarbasene	•	• •
	and the second s			
	Buchwitz amounted to 860,00	uipments to be delivered by th	e firm of Otto	
				s
8.	The duoplasmatron source fo	or the production of protons w	RS & EAS SOUTCO.	25 X 1
	greatest effect was at 250	ma.	and less. The	25 X 1
	be used and only very little is 1.5 mm. The source has a	or continuous operations and in the is very simple while a cat- the cooling is required. The em- a large useful effect and work	hode (oxide) can ission ovening	25 X 1
	ACTUAL SECUTORS TO NEW COMDISE	iou in May 1956. The switching	desks and	•
	switching devices required	for the source were built by	desks and Dipl. Ing. Hams	
	switching devices required Gruber, Ing. Heins Wien	for the source were built by	desks and Dipl. Ing. Hams all of them of VEB	
	switching devices required	for the source were built by	Dipl. Ing. Hams	
9.	Gruber, Ing. Heins Wien Otto Buchwits. The iron required for the t Rolling Plant Brandenburg.	for the source were built by lar, Ing. Manfred Klemm wo magnets was ordered from F. A total of 150 tons were delta	Dinl. Ing. Hams all of them of VEB Steel and	
9.	Gruber, Ing. Heins Wien Otto Buchwits. The iron required for the t Rolling Plant Brandenburg. batches. The five-tom block	for the source were built by lar, Ing. Manfred Klemm wo magnets was ordered from F. A total of 150 tons were deliving were rolled at VER Kunfer.	Dinl, Ing. Hams all of them of VEB EB Steel and vered in five	
9.	Gruber, Ing. Heins Wien Otto Buchwits. The iron required for the transless. The five-tom block Michael Miederkirschner at delivered were unusable bee	for the source were built by lar, Ing. Manfred Klemm wo magnets was ordered from F A total of 150 tons were delived at VEB Kunfer- at Issenburg/Hars Hts. About 17% ause of cavities. Thenty tone	Dinl. Ing. Hams all of them of VEB B Steel and wered in five and Bleichwerk of the blocks	
9. 1	Gruber, Ing. Heins Wien Otto Buchwits. The iron required for the trolling Plant Brandenburg. batches. The five-tom block Michael Miederkirschner at delivered were unusable bedelivered by VEB Steel and	for the source were built by lar, Ing. Manfred Klemn wo magnets was ordered from W. A total of 150 tons were delived at VEB Kupfer- a lisenburg/Hars Hts. About 17% Rolling Mill Greedits. Twenty the new Rolling Mill Greedits.	Dinl. Ing. Hams all of them of VEB B Steel and vered in five and Bleichwerk of the blocks of irons	
9.	Gruber, Ing. Heins Wien Otto Buchwits. The iron required for the trolling Plant Brandenburg. batches. The five-tom block Michael Miederkirschner at delivered were unusable bedelivered by VEB Steel and conducted with Prof. Mau. T	for the source were built by lar, Ing. Manfred Klemn Ing. Manfred Klemn Were delived total of 150 tons were delived were rolled at VEB Kupfer- a lisenburg/Hars Hts. About 17% Rolling Mill Groedits. The neghe iron blocks were plened at	B Steel and vered in five and Bleichwerk of the blocks of iron were the five at the five and Bleichwerk of the blocks of the five of VER	
9.	Gruber, Ing. Heins Wien Otto Buchwits. The iron required for the trolling Plant Brandenburg. batches. The five-tom block Michael Miederkirschner at delivered were unusable bed delivered by VEB Steel and conducted with Prof. Mau. Transfecture of these iron between the professional and conducted with prof. Mau. Transfecture of these iron between the conducted with prof. Mau. Transfecture of these iron between the conducted with prof. Mau. Transfecture of these iron between the conducted with prof. Mau. Transfecture of these iron between the conducted with prof. Mau. Transfecture of these iron between the conducted with prof. Mau. Transfecture of these iron between the conducted with prof. Mau. Transfecture of these iron between the conducted with prof. Mau. Transfecture of these iron between the conducted with prof. Mau. Transfecture of th	for the source were built by lar, Ing. Manfred Klemn wo magnets was ordered from W. A total of 150 tons were delived at VEB Kupfer- a lisenburg/Hars Hts. About 17% Rolling Mill Greedits. Twenty the new Rolling Mill Greedits.	Dinl. Ing. Hams all of them of VEB EB Steel and vered in five and Bleichwerk of the blocks of iron were rotiations were the firm of VEB costs for the	
9.	switching devices required Gruber, Ing. Heins Wien Otto Buchwits. The iron required for the t Rolling Plant Brandenburg. batches. The five-tom block Michael Niederkirschner at delivered were unusable bed delivered by VEB Steel and conducted with Prof. Mau. T Planeta, Coswig, and cut at remufacture of these iron b DME. The 20 tons of iron descent 7,000 DME.	for the source were built by Ing. Manfred Klemm Ing. Manfred Klemm Wo magnets was ordered from Fl A total of 150 tons were delives were rolled at VEB Kupfer- a Ilsenburg/Hars Hts. About 17% ause of cavities. Twenty tons Rolling Mill Groedits. The nea he iron blocks were planed at VEB Otto Buchwitz. The total locks and their machining amout livered by VEB Steel and Rolling	Dinl. Ing. Hams all of them of VEB EB Steel and vered in five and Bleichwerk of the blocks of iron were rotiations were the firm of VEB costs for the unted to 307,000 ing Mill Groedits	
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	60-kV plant with band page		,				
	30-kV plant	ritter,	36,000 18,000	DME	***		
	3-phase insulating transfo	rmer	9,000	#		,	25X1
	1 stabilizer 1 high-tension stabuliser	•	16,000				20/1
	Several small transformers		30,000 4,000	W ·		. 2	25 X 1
			•				
	At VEB Radio Engineering P	lant on Grossenh	inerstras	ee, Dresde	D.		05.
	test field for antennes. S	hysicist Sievert iewert developed	the stable	lising day	rge of the	:	25X
	makmane the argormantal ed	uipment cost 10,0	OO DEE an	d was comp	leted in	• • •	, ; , :
	July 1956.	•	•				, ,
,	The firm of VEB Galvanotec	hnik at 76 Torgat	er Stress	e in Leine	le, me		
	ordered to deliver:		:	mache	-01		
	1 generator, 500 A,		2 400	ra cva		• •	
	1 generator, 350 A,		1,600	UP ES			*
			• ; .	•	-		
	The private firm of Hollen deliver:	g & Mertens at Se	ngershaus	en was orde	ered to	•	` `.
	4 vacuum pumps of type 42/2 oil diffusion pumps of 3	4, cost per unit, 000 liters each	2,000 DME				
, [<u> </u>	<u> </u>		<u> </u>			25X
, L	VEB Elbtalwark, 29 Fudolf 1	Breitscheid stras s	e, Heiden	au near Dre	eden vas		
	ordered to furnish a generativith Obering. Richter	ator of 10 A, 500	V. Negot:	lations wer	re conducted		25X
	· · · · · · · · · · · · · · · · · · ·			*			Z3 /
	Numerous measuring sets sumeters etc were ordered fro Treptow. Negotiations were	om VEB "I.V.Stali	n" Elektro	apparates	ency ork at		
٠	Additional minor orders for	r materials and a	pperatus (ere handle	d by VEB		25X
	Otto Buchwits, Dresden.	• • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •		
	In August 1956, installation	on work at the Is	otope Sepe	rating Pla	nt was in		
	rull swing. The magnets, th	ne oil diffusion	mimps, the	DOLLEY SOL	TORRE.		ł
	the transformers, the band the switching plant had bee	pass filters, th	e insulati	ng transfe	rmer,		.
	and the 60-kV-300 mA plant been delivered by VEB Trans	was expecting as	ceptance t	esta. The	plant had		
	At VEB Vakutronik			9	· ·		25X
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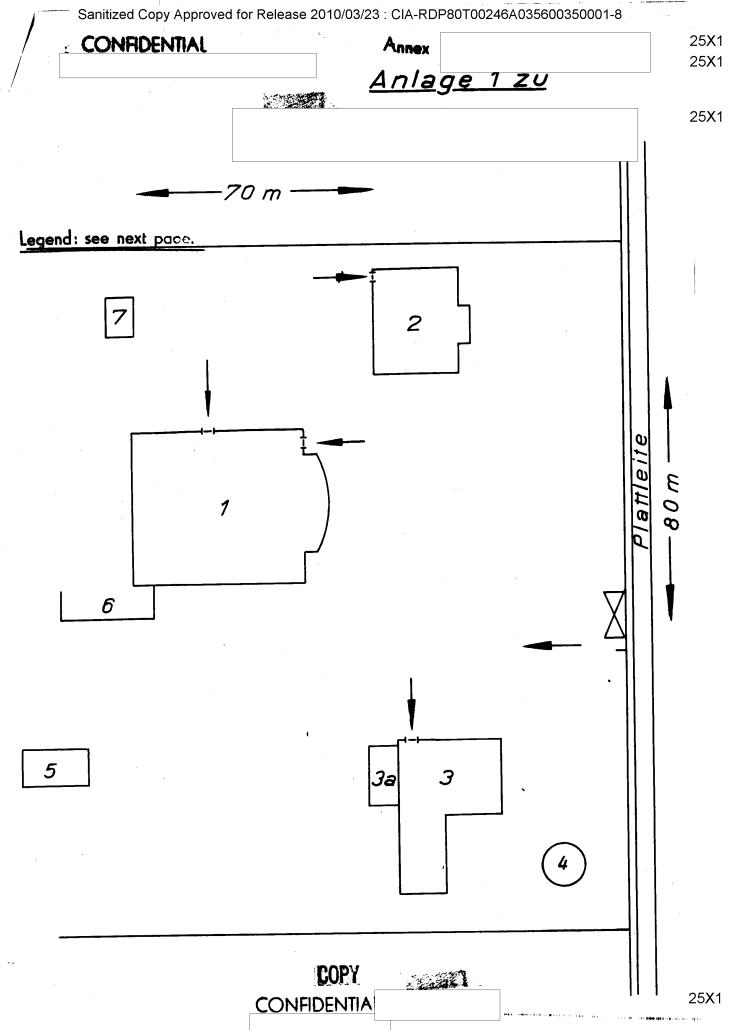


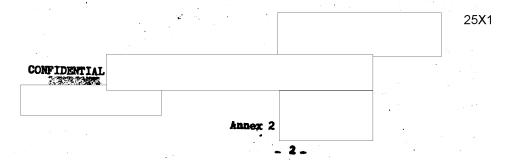
Layout Sketch of the Institute of Manfred von Ardenne.

Lagend.

- 1. Building No 29, the institute proper; on first fleor private rooms of von Ardenne and his private laboratory.
- 2. Building No 31, completed in November 1955; offices on the ground floor, designs bureaus on the second floor, workshops and storage facilities on the second floor.
- Old building converted to institute purposes, workshops on the ground floor and first floor.
- 3a. Garages
- 4. Astronomical observatory, private property of von Ardenne.
- 5. Swimming pool
- 6. Large terrace
- 7. Concrete bunker erected for measuring purposes; 4.5 x 5.5 m, about 4 m high, concrete wells, 1.2 m thick. The steel rods of the reinforced concrete were grounded.

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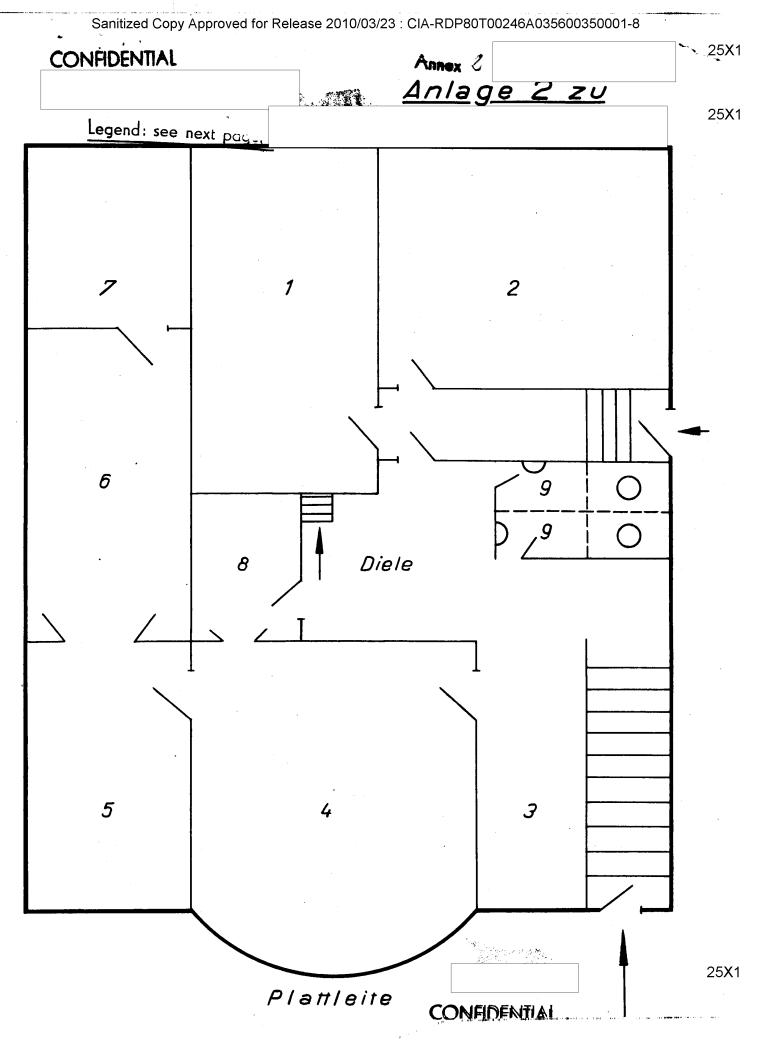
Layout Sketch of Building No. 29.

Legend.

- 1. Office of von Ardenne
- 2. Office of Frau Suchland, secretary to von Ardenne
- 3. Room housing the electron microscope, the 100 kV plant and mass spectrograph; Dr. Westmeier and Fraculein Rooper.
- 4. Room housing the micro oscillograph, Fraeulein Heuer, institute library.
- 5. Vacuum vaporisation plant, vacuum test stands, desks for students of the Dresden Institute of Technology
- 6. Vacuum leak spotter, vacuum test stands, vaporisation plant, Dr. Westmeier and Wienecke.
- 7. Measuring sets, drawing boards, library
- 8. Storage room
- 9. Toilet

The basement housed the chemical laboratory and the optical and photographical laboratories.

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Annex 3

Layout of Building No 31.

Legend.

Ground floor

- 1. Office Dr. Westmeier
- 2. High frequency laboratory, Rackwits
- 3. Office of Frits Richter
- 4. Office of Max Wied
- 5. Office of Dr. Reibedans
- 6. Toilets

First floor (Designs Bureau)

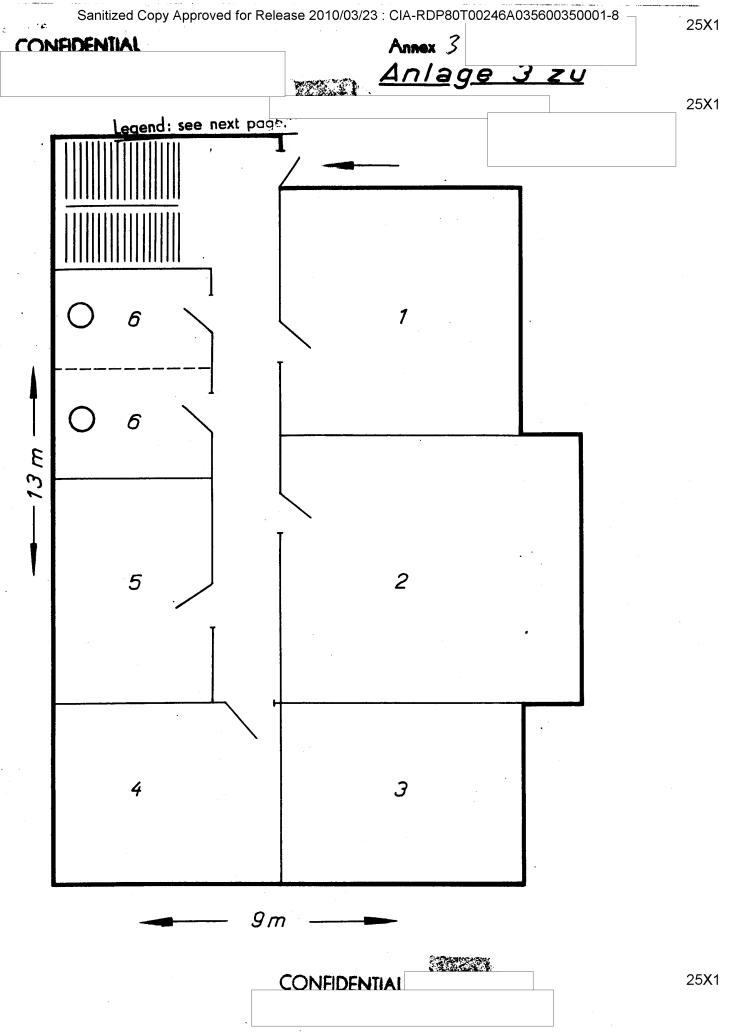
- 1. Technical draftsman
- 2.
- 3. Office of Schlesing and Kaup
- 4. Office of Obering. Jacger
- 5. Duplicating department

Second floor

- 1. Lathes, boring machines for foreman Lorens
- 2. Glass blowing set
- 3. Storage facilities
- 4. Glass blowing department
- 5. Storage of glass

Note: The layout sketches of the three stories of the building was exactly the same.

Contains



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	Annex 4		÷	
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Leyout Sketch of Building No 27.

Legend.

Ground floor

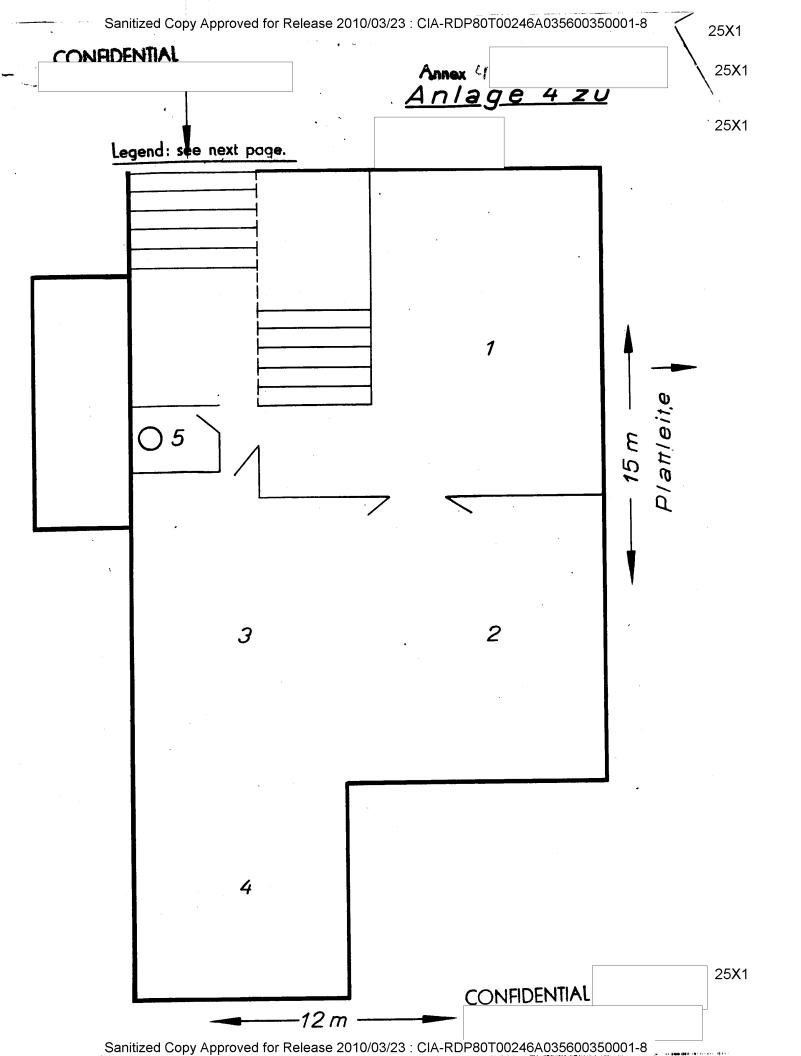
- 1. Mechanical workshop, Roggenbuck and Hoffmann
- 2. Lathes, boring machines, milling machines etc.
- 3. Assembly room
- 4. Newly added annex
- 5. Toilets

First floor

- 1. Poom occupied by Roggenbuck, engraving machines
- 2. Optical equipment
- 3. Precision mechanics' room
- 4. Measuring room

Note: The layout sketches of the two stories exactly the same.

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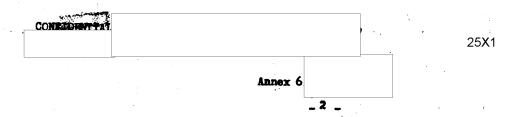


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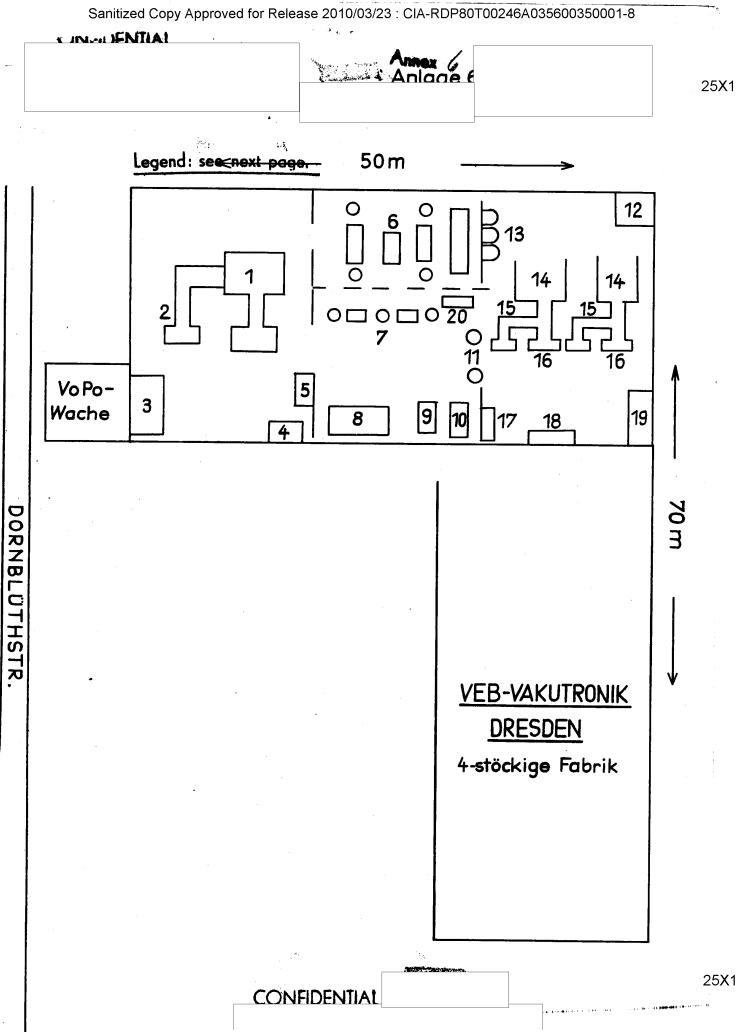
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Legend

- 1. Chamber and source (Duoplasmatron)
- 2. Oil diffusion pump
- 3. Stabiliser, 22 kV
- 4. Switch board
- 5. Switch desk
- 6. Generator room (high tension)
- 7. Band pass filter
- 8. High tension transformer 60 kV
- 9. Insulating transformer
- 10. Switch board (high tension)
- 11. Two water resistances for the cooling of sources
- 12. Outlet
- 13. Three basins
- 14. Two magnets
- 15. Two oil diffusion pumps
- 16. Two sources
- 17. Switchboard
- 18. and 19. Desks
 - 20. High tension transformer

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